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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/665,617	09/19/2000	Kuniki Kino	506.39084X00	5296	
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ANTONEL	LI TERRY STOUT A	EXAMINER			
	I SEVENTEENTH ST	MARX, IRENE			
ARLINGTO:	N. VA 22209		ART UNIT	PAPER NUMBER	
			1651	L.	
			DATE MAILED: 02/15/2002	DATE MAILED: 02/15/2002	

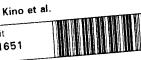
Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/665,617

Examiner

Art Unit 1651



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tatus	Responsive to communication(s) filed on Jan 17	<i>,</i>	nal		
2a) □	This action is FINAL . Since this application is in condition for allowan	ice except for fo x parte Quayle,	ormal matters, pr 1935 C.D. 11; 4	.53 O.G. 213.	
	closed in accordance		:	clare pending in the	application.
Dispos	Sition of Claims Claim(s) 1-10 4a) Of the above, claim(s) 6-10			is/are withdrawn fr	om consideration.
4) 💢	Claim(s) 7-10			is/are allowed	
	4a) Of the above, claim(s) 6-10 Claim(s)			is/are rejected	i.
5)	Claim(s)			is/are objecte	d to.
6) 5	(Claim(s) <u>1-5</u>			is/are objecte	lection requirement.
71	Claim(s)		are subject to	restriction and/or e	lection 1 1
81	Claim(s) <u>1-5</u> Claim(s) Claims				
A pp 9) 10)	lication Papers ☐ The specification is objected to by the Exam ☐ The drawing(s) filed on ☐ The proposed drawing correction filed on ☐ The oath or declaration is objected to by the	iner. _ is/are objected		iner	
12	The oath of doors		. 05.11.S.C. 5	119(a)-(d).	
	ority under 35 U.S.C. § 119 3) Acknowledgement is made of a claim for final All by Some* c). None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the Internati *See the attached detailed Office action for a Acknowledgement is made of a claim for	nents have been nents have been priority docume onal Bureau (PC	n received. In received in App ents have been re CT Rule 17.2(a)). ified copies not re ity under 35 U.S.	lication No ceived in this Natio eceived. C. § 119(e).	nal Stage
	Attachment(s)	18:	Interview Summary P	TO 413: Paper No.s	
	P-forences Cited PTO 897	19	Notice of Informal Pat	ent Application PTO-152	
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	 Notice of Drattsperson 171 X Information Disclosure Statement s PTO 1449 Paper No.s. 			F	Part of Paper No. 6

Serial No. 09/665617 Art Unit 1651

The election without traverse filed 1/17/02 is acknowledged. Claims 1-5 are being considered on the merits.

Claims 6-10 are withdrawn from consideration as directed to a non-elected invention.

Rejections under 35 U.S.C § 112

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is vague and indefinite in that it is unclear what is intended to be encompassed by "having resistance to an aminoquinoline derivative in a medium". To begin with, the concentration of the compound is not sufficiently delineated to which the microorganism is "resistant". In addition, the scope of the compounds encompassed by "aminoquinoline derivative" in this context cannot be readily ascertained, even when reading the claims in light of the specification. The only derivatives disclosed are those recited in claim 2. In addition, it is unclear what is intended by "resistance... in a medium". Is this the culture medium?

Claim 1 is confusing in that no clear antecedent basis is found for "the culture" in (b).

In claim 2, the term "substances" should properly be "compounds", inasmuch as "substances" generally pertains to unidentified mixtures.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Serial No. 09/665617 Art Unit 1651

Claim 5 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The invention appears to employ novel strain of *E. coli*. It is not clear if the written description is sufficiently repeatable to avoid the need for a deposit. Further it is unclear if the starting materials were readily available to the public at the time of invention.

It appears that a deposit was made in this application as filed as noted on page of the specification. However, it is not clear if the deposit meets all of the criteria set forth in 37 CFR 1.801-1.809. Applicant or applicant's representative may provide assurance of compliance with the requirements of 35 U.S.C § 112, first paragraph, in the following manner.

SUGGESTION FOR DEPOSIT OF BIOLOGICAL MATERIAL

A declaration by applicant, assignee, or applicant's agent identifying a deposit of biological material and averring the following may be sufficient to overcome an objection and rejection based on a lack of availability of biological material.

- 1. Identifies declarant.
- 2. States that a deposit of the material has been made in a depository affording permanence of the deposit and ready accessibility thereto by the public if a patent is granted. The depository is to be identified by name and address.
- 3. States that the deposited material has been accorded a specific (recited) accession number.
- 4. States that all restriction on the availability to the public of the material so deposited will be irrevocably removed upon the granting of a patent.
- 5. States that the material has been deposited under conditions that access to the material will be available during the pendency of the patent application to one determined by the Commissioner to be entitled thereto under 37 CFR 1.14 and 35 U.S.C § 122.
- 6. States that the deposited material will be maintained with all the care necessary to keep it viable and uncontaminated for a period of at least five years after the most recent request for the furnishing of a sample of the deposited microorganism, and in any case,

Serial No. 09/665617 Art Unit 1651

for a period of at least thirty (30) years after the date of deposit for the enforceable life of the patent, whichever period is longer.

7. That he/she declares further that all statements made therein of his/her own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the instant patent application or any patent issuing thereon.

Alternatively, it may be averred that deposited material has been accepted for deposit under the Budapest Treaty on the International Recognition of the Deposit of Microorganisms for the purpose of Patent Procedure (e.g. see 961 OG 21, 1977) and that all restrictions on the availability to the public of the material so deposited will be irrevocably removed upon the granting of a patent.

Additionally, the deposit must be referred to in the body of the specification and be identified by deposit (accession) number, date of deposit, name and address of the depository and the complete taxonomic description.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kino *et al.* taken with Stanbury *et al.*.

The claims are directed to the production of various amino acids with a microorganism having the ability to produce the amino acids and which is resistant to an aminoquinoline derivative in the medium

Serial No. 09/665617
 Art Unit 1651

Kino *et al.* teaches the production of an amino acid with a strain of *Corynebacterium glutamicum* which is resistant to an aminoquinoline derivative. The reference differs from the claimed invention in that the microorganism is disclosed to produce the amino acid tryptophan rather than the amino acids recited. However, one having ordinary skill in the art at the time the claimed invention would have reasonably expected any strain to produce and accumulate a variety of amino acids at least to some extent.

In addition Stanbury *et al.* adequately demonstrate that it is old and well known in the art to screen and select microorganisms for increased amino acid production by isolating mutants having amino acid analogue resistance (See, e.g., pages 43-47).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the claimed invention was made to modify the process of Kino *et al.* by culturing the same or other microorganisms for the production of amino acids having resistance to an aminoquinoline derivative for the expected benefit of obtaining a favorable yield of amino acids useful in the food and pharmaceutical industries.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (703) 308-2922. The examiner can normally be reached on Monday through Friday from 6:30 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn, can be reached on (703) 308-4743. The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 305-3592, (703) 308-4242 and (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service whose telephone number is (703) 308-0198 or the receptionist whose telephone number is (703) 308-1235.

Irene Marx

Primary Examiner
Art Unit 1651